

Application No. 10/817,555  
Docket No. 2001U004.US-CON  
Reply to Office Action Dated October 4, 2005

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A process for polymerizing olefin(s) to produce a polymer product, the process comprising contacting ethylene and at least one comonomer with a catalyst system, wherein the catalyst system comprises a ~~poor comonomer incorporating catalyst compound having at least one fused ring cyclopentadienyl based ligand~~ poor comonomer incorporating catalyst compound comprising a metallocene structure comprising at least one fused ring cyclopentadienyl ligand bridged to another cyclopentadienyl ligand, where the bridge is a long bridge defined as a bridge containing 2 or more atoms and a good comonomer incorporating catalyst compound; wherein the poor incorporator is a polymerization catalyst which when run under process conditions wherein  $(\text{Ind})_2\text{ZrCl}_2$  would produce a  $0.920 \text{ g/cm}^3$  density polyethylene, produces a polymer with a density greater than  $0.920 \text{ g/cm}^3$ ; further comprising isolating a polymer product having a density of from  $0.910$  to  $0.940 \text{ g/cm}^3$ , an Mw/Mn value of from 2 to less than 10 and an  $I_2$  value of from 0.1 to 100 dg/min.
2. (Original) The process of claim 1, wherein the poor comonomer incorporating catalyst compound comprises at least one fused ring cyclopentadienyl based ligand directed to the front of the molecule by an angle  $\alpha$  which is greater than 30 degrees.
3. (Original) The process of claim 2, wherein  $\alpha$  is greater than  $60^\circ$ .
4. (Original) The process of claim 2, wherein the poor comonomer incorporating catalyst compound comprises two fused ring cyclopentadienyl based ligands,

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wherein the angle  $\alpha$  of one of the two ligands is about 70° to about 90° and wherein angle  $\alpha$  of the second of the two ligands is greater than 15°.

5. (Original) The process of claim 4, wherein the angle  $\alpha$  of one of the two ligands is about 70° to about 90° and wherein angle  $\alpha$  of the second of the two ligands is greater than 45°.
6. (Original) The process of claim 1, wherein the polymer product is formed into a film.
7. (Original) The process of claim 1, wherein the process is a gas phase process.
8. (Original) The process of claim 1, wherein the poor comonomer incorporating catalyst compound requires a comonomer to monomer mole ratio at least two times that of the good comonomer incorporating catalyst compound to prepare the same density polymer.
9. (Original) The process of claim 8, wherein the poor comonomer incorporating catalyst compound requires a comonomer to monomer mole ratio of at least three times that of the good comonomer incorporating catalyst compound.
10. (Previously presented) The process of Claims 8 or 9, wherein the density of the polymer is 0.920 g/cm<sup>3</sup>.
11. (Cancelled)
12. (Cancelled).
13. (Original) The process of claim 1, wherein the at least one comonomer is selected from alpha-olefins having from 4 to 15 carbon atoms.

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14. (Cancelled).
15. (Original) The process of claim 14, wherein the polymer product possesses a CDBI of from 55% to 85%